

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (currently amended): A waveguide type optical module comprising:
an optical waveguide;

a temperature control element configured to control a temperature of the optical waveguide, the temperature controlling element comprising a ceramic plate having a first surface and a second surface on an opposite side of the first surface; supported on a pedestal inside a casing; and

an optical waveguide disposed in contact on the temperature control element;
a pedestal supporting the temperature control element via the ceramic plate; and
a casing encasing the optical waveguide, temperature control element and pedestal therein;

wherein[[:]] the optical waveguide is provided on the first surface of the ceramic plate, the second surface of the ceramic plate has the temperature control element includes a plate having one of a heater [[or]] and a heat absorber provided on a non-heating side thereof or buried in the second surface of the ceramic plate, therein; and the plate is supported inside the casing so that the and the pedestal supports the ceramic plate such that an area of contact [[with]] by the pedestal is less than 30% of [[the]] a second surface [[area]] of the ceramic plate.

Claim 2 (currently amended): The optical module according to claim 1, wherein the pedestal is ~~put into~~ in contact with [[the]] edge portions of the ceramic plate ~~to support the~~
latter.

Claim 3 (currently amended): The optical module according to claim 1, wherein the pedestal supports the ceramic plate in contact with ~~the end-face~~ corner portions of the ~~[[latter]]~~ ceramic plate.

Claim 4 (currently amended): The optical module according to claim 1, wherein the ceramic plate is made of comprises at least one ceramics selected from the group consisting of at least one nitride ceramics, at least one carbide ceramics, at least one oxide ceramics and at least one carbon ceramics.

Claim 5 (currently amended): A temperature controller for ~~use in~~ a waveguide type optical module, ~~the temperature controller~~ comprising:

~~a temperature control element held inside a casing and which includes~~

~~a ceramic plate having a first surface and a second surface on an opposite side of the first surface;~~

~~at least one of [[a]] heater [[or]] and a heat absorber provided on a non-heating side thereof or buried therein or buried in the second surface of the ceramic plate; and~~

~~there is installed to the plate~~

~~a pedestal for supporting the plate thereon so supporting the ceramic plate such that~~
~~[[the]] an area of contact [[with]] by the pedestal and the non-heating side of the plate is less than 30% of the second surface [[area]] of the ceramic plate.~~

Claim 6 (currently amended): The temperature controller for ~~use in~~ a waveguide type optical module according to claim 5, wherein the pedestal is ~~put into~~ in contact with ~~[[the]]~~ edge portions of the ceramic plate ~~to support the latter.~~

Claim 7 (currently amended): The temperature controller for ~~use in~~ a waveguide type optical module according to claim 5, wherein the pedestal supports the ceramic plate in contact with ~~the end-face~~ corner portions of the ~~[[latter]]~~ ceramic plate.

Claim 8 (currently amended): The temperature controller for use in a waveguide type optical module according to claim 5, wherein the ceramic plate is made of comprises at least one ceramics selected from the group consisting of at least one nitride ceramics, at least one carbide ceramics, at least one oxide ceramics and at least one carbon ceramics.

Claim 9 (currently amended): A waveguide type optical module comprising:

an optical waveguide;

a temperature control element configured to control a temperature of the optical waveguide, the temperature controlling element comprising a ceramic plate having a first surface and a second surface on an opposite side of the first surface; supported on

a pedestal comprising a plurality of pedestal elements inside supporting the temperature control element via the ceramic plate; and

a casing, and an encasing the optical waveguide, disposed in contact on the temperature control element, and pedestal therein,

wherein~~[[:]]~~ the ceramic plate of the temperature control element includes has a generally substantially rectangular plate having shape and has the optical waveguide on the first surface and one of a heater [[or]] and a heat absorber provided on or buried in the second surface, a non-heating side thereof or buried therein; and the pedestal supports the ceramic plate thereon in contact with each outer corner of the latter and so at corner portions of the rectangular shape of the ceramic plate such that [[the]] an area of contact between the pedestal elements and ceramic plate is less than 30% of the second surface [[area]] of the ceramic plate.

Claim 10 (currently amended): The optical module according to claim 9, wherein in the portion of each of the pedestal being pedestal elements in contact with the ceramic plate has a contacting portion whose length along a side of the rectangular shape is $\alpha 2$, a length of

the side of the rectangular shape is α_1 , when it is assumed that one side of the plate is α_1 while the length of the contacting portion of the pedestal along the one side of the plate is α_2 , and the length, α_2 , should preferably be in a range of 5 to 40 % of the length, α_1 .

Claim 11 (currently amended): The optical module according to claim 9, wherein ~~the total area of the pedestal preferably be~~ pedestal elements have a total area of contacts with the second surface within a range of 1 to 25 % of an entire area of the second surface [[area]] of the ceramic plate.

Claim 12 (currently amended): The optical module according to claim 9, wherein ~~[[the]] an area of each pedestal preferably be of the pedestal elements contacting the second surface is~~ within a range of 0.4 to 7 % of an entire area of the second surface [[area]] of the ceramic plate.

Claim 13 (currently amended): The optical module according to claim 9, wherein the pedestal elements support support the ceramic plate in contact with the end face the corner portions of the latter ceramic plates, respectively.

Claim 14 (currently amended): The optical module according to claim 9, wherein the ceramic plate is made of comprises at least one ceramics selected from the group consisting of at least one nitride ceramics, at least one carbide ceramics, at least one oxide ceramics and at least one carbon ceramics.

Claim 15 (currently amended): A temperature control element ~~including comprising:~~
a ceramic plate having a first surface and a second surface;
at least one of a heater [[or]] and a heat absorber provided on a non-heating side thereof or buried therein; in the second surface of the ceramic plate; and
a pedestal supporting the ceramic plate via the second surface.

wherein the ceramic plate is ~~shaped so that the~~ has a total area of contact with ~~[[a]] the~~ pedestal ~~which support the plate thereon~~ which is less than 30% of the second surface ~~[[area]]~~ of the ceramic plate.

Claim 16 (currently amended): The temperature control element according to claim 15, wherein the pedestal is ~~put into~~ in contact with ~~[[the]]~~ edge portions of the ceramic plate ~~to support the latter.~~

Claim 17 (currently amended): The temperature control element according to claim 15, wherein the pedestal supports the ceramic plate in contact with ~~the end face~~ corner portions of the ~~latter~~ ceramic plate.

Claim 18 (currently amended): The temperature control element according to claim 15, wherein the ceramic plate ~~is made of~~ comprises at least one ceramics selected from the group consisting of at least one nitride ceramics, at least one carbide ceramics, at least one oxide ceramics and at least one carbon ceramics.

Claim 19 (new): The waveguide type optical module according to claim 1, wherein the optical waveguide is configured to demultiplex an optical signal.

Claim 20 (new): The waveguide type optical module according to claim 9, wherein the optical waveguide is configured to demultiplex an optical signal.